

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start		Rating **	A	Issue No.	20
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0005_01_s _ 2013_20				
Comment Code					
Inspector Comment					
City of Sacramento has copies of the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	22
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0005_01_s _ 2013_22				
Comment Code					
Inspector Comment					
City of Sacramento maintains a stockpile of Flood Fight response material.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start		Rating **	A	Issue No.	23
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0005_01_s_2013_23				
Comment Code					
Inspector Comment					
City of Sacramento has a written response plan and has taken flood fight methods training.					

No Photos

LM Start	0.08	Rating **	M	Issue No.	79
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.589690 °	38.589690 °	
			-121.505106 °	-121.505106 °	
DWR ID	DWR_NA0005_01_s_2017_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on waterside slope.					

Photo 1 of 1 : SP_2017_NA0005_251_79_20170414_00138.jpg



Fallen tree limbs on the waterside levee slope, looking toward the Sacramento River. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	1.16	Rating **	M	Issue No.	80
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.574799 °	38.574799 °
				-121.510170 °	-121.510170 °
DWR ID	DWR_NA0005_01_s_2017_80				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_80_20170414_00139.jpg



Multiple burrow holes on waterside levee slope. Spring 2017.

LM Start	1.16	Rating **	M	Issue No.	13
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.574780 °	38.568757 °
				-121.510191 °	-121.515930 °
DWR ID	DWR_NA0005_01_f_2012_13				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 2 : SP_2017_NA0005_251_13_20170320_00010.jpg



Monitor trees and woody vegetation along the rivers edge looking downstream. Fall 2015.

LM Start	1.16	Rating **	M	Issue No.	13 (cont)
LM End	1.69	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_NA0005_251_13_20170320_00011.jpg



Monitor the trees and woody vegetation along the rivers edge. Fall 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	1.18	Rating **	M	Issue No.	89
LM End	1.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.574580 °	38.568512 °
				-121.510396 °	-121.516020 °
DWR ID	DWR_NA0005_01_s_2017_89				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_89_20170414_00141.jpg



Large grass blocking visibility on waterside levee slope. Spring 2017.

LM Start	1.19	Rating **	M	Issue No.	83
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.574404 °	38.574404 °
				-121.510542 °	-121.510542 °
DWR ID	DWR_NA0005_01_s_2017_83				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_83_20170414_00140.jpg



Trim and thin trees on waterside levee slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	1.25	Rating **	M	Issue No.	87
LM End	1.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.573791 °	38.573791 °
				-121.511161 °	-121.511161 °
DWR ID	DWR_NA0005_01_s_2017_87				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Footpath on waterside levee slope. Heavy traffic due to homeless camp at retaining wall.					

Photo 1 of 1 : SP_2017_NA0005_251_87_20170414_00142.jpg



Foot path digging into waterside levee slope. Spring 2017.

LM Start	1.25	Rating **	C	Issue No.	75
LM End	1.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.573704 °	38.573704 °
				-121.511219 °	-121.511219 °
DWR ID	DWR_NA0005_01_f_2016_75				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	76 (cont)	
LM End	1.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			38.573240 °	38.573240 °	
				-121.511707 °	-121.511707 °	
DWR ID	DWR_NA0005_01_s_2017_76					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

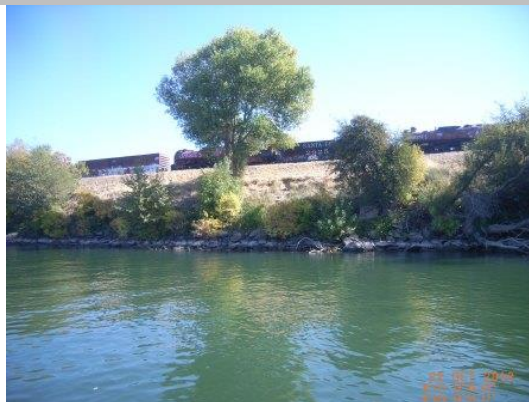
Photo 2 of 2 : SP_2017_NA0005_251_76_20170320_00015.jpg



Rodent hole backfilled with natural soil on waterward side of the levee.
Fall 2016 inspection.

LM Start	1.31	Rating **	M	Issue No.	1
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.573169 °	38.572277 °
				-121.511998 °	-121.513063 °
DWR ID	DWR_NA0005_01_s_2016_1				
Comment Code					
Inspector Comment					
2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013 - Erosion continues on the slope surface, site extended upstream. 2015: No observed changes. [2015 Site ID: SAC 58-5 L]					

Photo 1 of 2 : SP_2017_NA0005_251_1_20170320_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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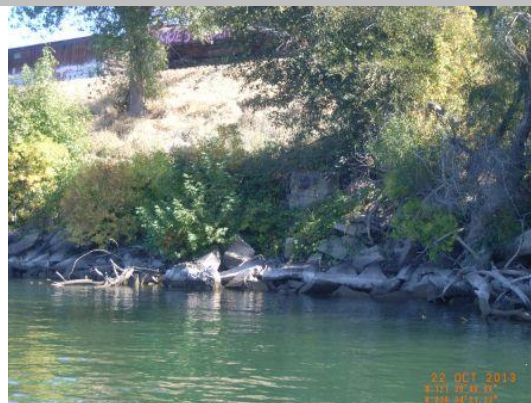
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	1.31	Rating **	M	Issue No.	1 (cont)
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.573169 °	38.572277 °
				-121.511998 °	-121.513063 °
DWR ID	DWR_NA0005_01_s_2016_1				
Comment Code					
Inspector Comment					
2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013 - Erosion continues on the slope surface, site extended upstream. 2015: No observed changes. [2015 Site ID: SAC 58-5 L]					

Photo 2 of 2 : SP_2017_NA0005_251_1_20170320_00002.jpg



USACE 2013 Photo #2

LM Start	1.46	Rating **	M	Issue No.	88
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.571462 °	38.571462 °
				-121.513810 °	-121.513810 °
DWR ID	DWR_NA0005_01_s_2017_88				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Sink hole on waterside levee slope near crown.					

Photo 1 of 1 : SP_2017_NA0005_251_88_20170414_00143.jpg



Sink hole on waterside levee slope near crown. Spring 2017.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	2.16	Rating **	A/W	Issue No.	86
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.562024 °	38.562024 °
				-121.515923 °	-121.515923 °
DWR ID	DWR_NA0005_01_s_2017_86				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on wateside slope. Marked on March 17, 2017					

Photo 1 of 1 : SP_2017_NA0005_251_86_20170414_00147.jpg



Erosion on wateside slope that appers to be underwater. Marked on March 17, 2017. Spring 2017.

LM Start	2.30	Rating **	M	Issue No.	77
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.559889 °	38.559889 °
				-121.515341 °	-121.515341 °
DWR ID	DWR_NA0005_01_f_2016_77				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_77_20170320_00016.jpg



More squirrel holes found on waterward slope. Fall 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	2.31	Rating **	M	Issue No.	82
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.559767 °	38.559767 °
				-121.515264 °	-121.515264 °
DWR ID	DWR_NA0005_01_s_2016_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_82_20170320_00018.jpg



View of the rodent holes on the waterward side of the levee looking downstream. Spring 2016.

LM Start	2.43	Rating **	U	Issue No.	78
LM End	2.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.558281 °	38.558281 °
				-121.514393 °	-121.514393 °
DWR ID	DWR_NA0005_01_f_2015_78				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_78_20170320_00017.jpg



Rodent holes with more than 2 cub ft. of soil taken out found on landside slope of the levee. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	2.44	Rating **	M	Issue No.	92
LM End	3.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.558122 °	38.541081 °
				-121.514366 °	-121.511482 °
DWR ID	DWR_NA0005_01_s_2017_92				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_92_20170414_00146.jpg



Tall vegetation on waterside levee slope, blocking visibility. Spring 2017.

LM Start	2.45	Rating **	A/W	Issue No.	8
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.557937 °	38.557937 °
				-121.514237 °	-121.514237 °
DWR ID	DWR_NA0005_01_s_2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	2.45	Rating **	A/W	Issue No.	95
LM End	2.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.557890 °	38.557890 °
				-121.514249 °	-121.514249 °
DWR ID	DWR_NA0005_01_s_2017_95				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside levee toe staked during February high water event.					

Photo 1 of 1 : SP_2017_NA0005_251_95_20170414_00148.jpg



Erosion on waterside levee toe staked during February high water event.
The erosion appears to be underwater. Spring 2017.

LM Start	2.52	Rating **	M	Issue No.	84
LM End	2.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.556964 °	38.551504 °
				-121.513926 °	-121.511746 °
DWR ID	DWR_NA0005_01_s_2016_84				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_84_20170320_00019.jpg



View of landside slope. Tree trimming and vegetation removal required.
Fall 2016.

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Unit No. 01 Sacramento River	Left	3.67	03/29/2017 03/29/2017	Zach Jojola

LM Start	3.06	Rating **	M	Issue No.	99
LM End	3.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.549504 °	38.549504 °
				-121.511019 °	-121.511019 °
DWR ID	DWR_NA0005_01_s_2017_99				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Burrows on waterside levee slope					

Photo 1 of 1 : SP_2017_NA0005_251_99_20170414_00150.jpg



Burrows on waterside levee slope, looking towards Sacramento River.
Spring 2017.

LM Start	3.35	Rating **	M	Issue No.	85
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.545403 °	38.545403 °
				-121.509830 °	-121.509830 °
DWR ID	DWR_NA0005_01_s_2016_85				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 2 : SP_2017_NA0005_251_85_20170320_00020.jpg



View of the trees on the landward side of the levee. Spring 2016.

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LM Start	3.35	Rating **	M	Issue No.	85 (cont)	
LM End	3.35	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.545403 °		38.545403 °
				-121.509830 °		-121.509830 °
DWR ID	DWR_NA0005_01_s_2016_85					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						

Photo 2 of 2 : SP_2017_NA0005_251_85_20170320_00021.jpg



Perspective view of the trees on the landward side of the levee looking downstream. Spring 2016.

LM Start	3.61	Rating **	M	Issue No.	100
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.541912 °	38.541912 °
				-121.511014 °	-121.511014 °
DWR ID	DWR_NA0005_01_s_2017_100				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2017_NA0005_251_100_20170414_00151.jpg



Sloughing on waterside levee slope. City of Sacramento placed raincoat to prevent further erosion. Spring 2017.

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